

Online Protokoll vom 13.06.1997 um 15:41

fil Japio

FILE 'JAPIO' ENTERED AT 15:39:49 ON 13 JUN 1997
COPYRIGHT (C) 1997 Japanese Patent Office (JPO) and Japan Patent
(Japio)

Information Organization

FILE LAST UPDATED: 03 JUN 97 <970603/UP>
FILE COVERS 1976 TO DATE.

L2 ANSWER 1 OF 1 JAPIO COPYRIGHT 1997 JPO and Japio
AN 95-265074 JAPIO
TI NEW CREATINE AMIDINOHYDROLASE AND ITS USE
IN HATTORI SHIZUO; TEJIMA SHINICHI; KAWAMURA YOSHIHISA
PA TOYOB0 CO LTD, JP (CO 000316)
PI ***JP 07265074*** A 19951017 Heisei
AI JP 94-63363 (JP06063363 Heisei) 19940331
SO PATENT ABSTRACTS OF JAPAN (CD-ROM), Unexamined Applications, Vol.
95, No. 10
ICM (6) C12N009-78
ICS (6) C12Q001-26; (6) C12Q001-34
ICA (6) C12Q001-28
ICI (6) C12N009-78, (6) C12R001:05
CC 14.5 ORGANIC CHEMISTRY - Microorganism industry
28.2 SANITARY - Therapy and sanitation
46.2 INSTRUMENTATION - Testing
AB PURPOSE: To obtain a new creatine amidinohydrolase, useful as reagents for determining creatine and creatinine, excellent in thermal stability, having a low Km value for the creatine and good in reactivity.
CONSTITUTION: This creatine amidinohydrolase is obtained by culturing Alcaligenes faecalis TE3581 (FERM P-14237), etc., and has the following properties: (1) reacting with creatine and producing sarcosine and urea; (2) optimum temperature: about 40-45.degree.C; (3) optimum pH: about 8.0-9.0; (4) stable at ltoreq. about 50.degree.C when kept warm at pH7.5 for 30min; (5) stable at pH about 5-8 when preserved at 40.degree.C for 18hr; (6) about 15.2mM value of Km for creatine; (7) molecular weight: about 67000 (measured by the gel filtration method) and about 43000 (measured by the sodium dodecyl sulfate-polyacrylamide gel electrophoresis (SDS-PAGE)) and (8) isoelectric point: about 3.5.